






## Assessment Summary

<b>Lost Creek 3.7 to 20.4</b> <b>KY497178_02</b>	 <p>This part of the stream does not support aquatic life, does not support swimming (Primary Contact Recreation).</p>
<b>Leatherwood Creek to Headwaters</b>	
<b>Breathitt County, Kentucky River Basin</b>	
<b>HUC 05100201</b>	
<b>Assessment Date: 6/24/2016</b>	




Use	Cause of Impairment	Suspected Source(s) of Impairment	Basis for Listing	Data Collection and Analysis Methods <sup>1,2,3</sup>
 (4C-NS)	Habitat Assessment (Streams)	Loss of Riparian Habitat, Streambank Modifications/destabilization, Surface Mining	Man-made or man-induced alteration of the chemical, physical (e.g. habitat), biological, and radiological integrity of water	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (5-NS)	Lead	Surface Mining, Upstream Source	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4C-NS)	Other flow regime alterations	Loss of Riparian Habitat, Streambank Modifications/destabilization, Surface Mining	Man-made or man-induced alteration of the chemical, physical (e.g. habitat), biological, and radiological integrity of water	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (5-NS)	Sedimentation/Siltation	Loss of Riparian Habitat, Streambank Modifications/destabilization, Surface Mining	Sediment deposition is negatively affecting the aquatic community (e.g. habitat smothering) and/or recreation	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring

<sup>1</sup> Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

<sup>2</sup> Data Source(s): KDFWR, KDOW AWQ, KDOW BACT

<sup>3</sup> Data Collection Date(s): 8/1/1998 - 3/30/2014

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 (5-NS)	Total Dissolved Solids	Loss of Riparian Habitat, Streambank Modifications/destabilization, Surface Mining	Elevated dissolved substances are negatively affecting the aquatic community	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (5-NS)	Turbidity	Loss of Riparian Habitat, Streambank Modifications/destabilization, Surface Mining	Reduced water clarity is affecting the aquatic community and/or recreation	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (5-NS)	Escherichia coli	Non-Point Source	Concentrations exceeded the water quality standard	Pathogen Monitoring

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